

## CLAIMS

1. A wireless controller for remote-controlling a predetermined electronic device through wireless communication, the controller comprising:

a plurality of internal components each utilizing electric power at a rate of power consumption to operate, the plurality of components being classified into at least a first group of components whose members each have a relatively high rate of power consumption and a second group of components whose members each have a relatively low rate of power consumption; and

at least two power supplies, one of the power supplies supplying electric power to only the first group of components, and another of the power supplies supplying electric power to the second group of components.

2. The controller according to claim 1, wherein the one power supply supplying electric power to only the first group of components is an exchangeable battery.

3. The controller according to claim 1, wherein the another power supply supplying electric power to the second group of components is an incorporated secondary battery.

4. The controller according to claim 3, further comprising:

a charge terminal for charging the secondary battery.

5. A wireless controller for remote-controlling a predetermined electronic device through wireless communication, the controller comprising:

a plurality of internal components each utilizing electric power to operate, the plurality of components being classified into at least a first group of components whose members each have a relatively low degree of functional importance and a second group of components whose members each have a relatively high degree of functional importance; and

at least two power supplies, one of the power supplies supplying electric power to only the first group of components, and another of the power supplies supplying electric power to the second group of components.

6. The controller according to claim 5, wherein the one power supply supplying electric power to only the first group

of components is an exchangeable battery.

7. The controller according to claim 5, wherein the another power supply supplying electric power to the second group of components is an incorporated secondary battery.

8. The controller according to claim 7, further comprising:

a charge terminal for charging the secondary battery.

9. A wireless controller for remote-controlling a predetermined electronic device through wireless communication, the controller comprising:

a plurality of internal components each utilizing electric power at a rate of power consumption to operate, the plurality of components being classified into at least a first group of components whose members each have a relatively high rate of power consumption and a relatively low degree of functional importance, and a second group of components whose members each have a relatively low rate of power consumption and a relatively high degree of functional importance; and

at least two power supplies, one of the power supplies supplying electric power to only the first group of components, and another of the power supplies supplying electric power to the second group of components.

10. The controller according to claim 9, wherein the one power supply supplying electric power to only the first group of components is an exchangeable battery.

11. The controller according to claim 9, wherein the another power supply supplying electric power to the second group of components is an incorporated secondary battery.

12. The controller according to claim 11, further comprising:

a charge terminal for charging the secondary battery.

13. A method of supplying power to a wireless controller for remote-controlling a predetermined electronic device through wireless communication, the controller having a plurality of internal components each utilizing electric power at a rate of power consumption to operate, the method comprising:

providing at least two power supply systems;

classifying the plurality of internal components of

the controller into at least a first group of components whose members each have a relatively high rate of power consumption, and a second group of components whose members each have a relatively low rate of power consumption; and

supplying electric power from one of the power supply systems to only the first group of components, and supplying electric power from another of the power supply systems to the second group of components.

14. A method of supplying power to a wireless controller for remote-controlling a predetermined electronic device through wireless communication, the controller having a plurality of internal components each utilizing electric power to operate, the method comprising:

providing at least two power supply systems;

classifying the plurality of internal components of the controller into at least a first group of components whose members each have a relatively low degree of functional importance, and a second group of components whose members each have a relatively high degree of functional importance; and

supplying electric power from one of the power supply systems to only the first group of components, and supplying electric power from another of the power supply systems to the second group of components.

15. A method of supplying power to a wireless controller for remote-controlling a predetermined electronic device through wireless communication, the controller having a plurality of internal components each utilizing electric power at a rate of power consumption to operate, the method comprising:

providing at least two power supply systems;

classifying the plurality of internal components of the controller into at least a first group of components whose members each have a relatively high rate of power consumption and a relatively low degree of functional importance, and a second group of components whose members each have a relatively low rate of power consumption and a relatively high degree of functional importance; and

supplying electric power from one of the power supply systems to only the first group of components, and supplying

electric power from another of the power supply systems to the second group of components.

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